IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (CURRENTLY AMENDED) A liquid crystal display, having a liquid crystal panel and backlights, comprising:

a signal converter to convert selectively input analogue video signals into digital video signals in synchronization with a first predetermined sampling clock signal;

a scaler to sample the digital video signals at a preset resolution in synchronization with a second predetermined sampling clock signal, and to extract a horizontal synchronization signal from the sampled digital video signals;

a panel driver to display the digital video signals on the liquid crystal panel;

a controller to detect the extracted horizontal synchronization signal from the digital video signals to determine a display mode, to output the first and second predetermined sampling clock signals to the signal converter and the scaler, respectively, according to the determined display mode, and to generate inverter on/off signals whenever the display mode-horizontal synchronization signal is transiently changed; and

an inverter to drive the backlights in synchronization with the detected horizontal synchronization signal and the inverter on/off signals.

2. (ORIGINAL) The liquid crystal display of claim 1, wherein the inverter comprises: a pulse width modulator to generate pulse width modulation signals, which are synchronized with the horizontal synchronization signal, and to turn the pulse width modulation signals on or off according to the inverter on/off signals generated by the controller;

a switching transformer to switch a power supply on or off according to the pulse width modulation signals; and

a lamp which radiates light using the power supplied by the switching transformer.

3. (CURRENTLY AMENDED) The liquid crystal display of claim 1, wherein the

controller generates and outputs the inverter off signals to the inverter when the display mode horizontal synchronization signal is changed, and continues generating and outputting the inverter off signals until the horizontal synchronization signal is detected.

4. (CURRENTLY AMENDED) A method of controlling an inverter to drive backlights in a liquid crystal display, comprising:

determining whether a display mode horizontal synchronization signal transiently changes while video signals are displayed; and

applying backlight off signals to the inverter while the display mode horizontal synchronization signal is changing, and applying backlight on signals to the inverter when athe horizontal synchronization signal is detected.

- 5. (CURRENTLY AMENDED) The method of claim 4, wherein the horizontal synchronization signal begins to cause a transient effect when the display mode is changed.
- 6. (CURRENTLY AMENDED) A method in which a controller controls backlights in a liquid crystal display, comprising:

controlling an inverter to drive the backlights in synchronization with a first horizontal synchronization signal in a digital video signal when video signals are input;

determining whether a display mode has been changed;

inputting an inverter off signal to the inverter, if the display mode first horizontal synchronization signal is transiently changed, to control the inverter to not drive the backlights:

checking whether the <u>display modefirst horizontal synchronization signal</u> change is completed; and

inputting an inverter on signal to the inverter if the display mode first horizontal synchronization signal change is completed so as to control the inverter to drive the backlights in synchronization with a second horizontal synchronization signal.

- 7. (CURRENTLY AMENDED) The method according to claim 6, further comprising repeating the checking if the display mode first horizontal synchronization signal change is not completed.
- 8. (CURRENTLY AMENDED) The method according to claim 6, further comprising initially skipping the determining, the inputting the inverter off signal, and the checking operations

if the user has not changed the display mode first horizontal synchronization signal.

- 9. (CURRENTLY AMENDED) The method according to claim 6, wherein the determining comprises recognizing key signals as display mode first horizontal synchronization signal change signals if the video signals are those of a PC and are displayed when the user inputs the key signals to change the video signals.
- 10. (CURRENTLY AMENDED) The method according to claim 6, wherein the determining comprises determining whether the <u>a</u> display mode is changed from a PC to that of a DTV.
- 11. (ORIGINAL) The method according to claim 6, wherein the checking lasts until the second horizontal synchronization signal is generated.
- 12. (ORIGINAL) The method according to claim 6, wherein the checking comprises determining whether the second horizontal synchronization signal exists in the video signals.
- 13. (CURRENTLY AMENDED) A method of driving backlights before, during, and after a change in a display mode, and turned on thereafter, the method comprising:

driving the backlights in synchronization with a first synchronization signal in a video signal;

determining whether a display mode the first synchronization signal has been transiently changed;

stopping the driving, if the display mode is changed;

checking whether the display mode change is completed; and

resuming driving the backlights in synchronization with a second synchronization signal in a video signal if the display mode change is completed.

- 14. (ORIGINAL) The method according to claim 13, further comprising repeating the checking if the display mode change is not completed.
- 15. (ORIGINAL) The method according to claim 13, further comprising skipping the determining, the inputting, the stopping, and the checking operations if the display mode is not changed.

- 16. (ORIGINAL) The method according to claim 13, wherein the determining comprises recognizing key signals as display mode change signals.
- 17. (ORIGINAL) The method according to claim 13, wherein the checking lasts until the second synchronization signal is generated.
- 18. (ORIGINAL) The method according to claim 13, wherein the checking comprises determining whether the second synchronization signal exists in the video signal.
- 19. (CURRENTLY AMENDED) A panel and an inverter in a liquid crystal display having backlights, which are synchronized with one another to avoid oscillatory interference therebetween and to remove noise from a screen, wherein the inverter is turned off during a transient display mode horizontal synchronization signal change to prevent the backlights from being turned off.
- 20. (CURRENTLY AMENDED) A panel and an inverter in a liquid crystal display having backlights, which are synchronized with one another, wherein the inverter is turned off during a display mode transient horizontal synchronization signal change to prevent the backlights from being turned off.
- 21. (CURRENTLY AMENDED) A method of controlling a liquid crystal display having backlights in which selectively input video signals are converted into digital video signals to be sampled, comprising:

extracting a first synchronization signal from the sampled digital video signals; driving the backlights in synchronization with the first synchronization signal; stopping the driving if a display mode the first synchronization signal of the liquid crystal display is transiently changed;

extracting a second synchronization signal from the sampled digital video signals; driving the backlights in synchronization with the second synchronization signal if the changing of the display mode is determined to be completed.

22. (CURRENTLY AMENDED) A liquid crystal display, having a liquid crystal panel and backlights, comprising:

a signal converter to convert a video signal into a digital video signal in synchronization with a first sampling clock signal;

a scaler to sample the digital video signal in synchronization with a second sampling clock signal, and to extract a first synchronization signal therefrom;

a panel driver to display the digital video signals on the liquid crystal panel;

a controller to detect the synchronization signal from the digital video signal to determine a display mode, to output the first and second sampling clock signals to the signal converter and the scaler, respectively, according to the determined display mode, and to generate inverter on/off signals whenever the display-synchronization signal mode is transiently changed; and

an inverter to drive the backlights in synchronization with a second synchronization signal and the inverter on/off signals.

- 23. (ORIGINAL) The liquid crystal display according to claim 22, wherein the controller determines a display mode.
- 24. (ORIGINAL) The liquid crystal display according to claim 23, wherein the controller outputs the first and second sampling clock signals to the signal converter and the scaler, respectively, according to the determined display mode.
- 25. (ORIGINAL) The liquid crystal display according to claim 22, wherein the inverter comprises a pulse width modulator to generate pulse width modulation signals synchronized with the first synchronization signal, and to turn the pulse width modulation signals on and off according to the inverter on/off signals generated by the controller.
- 26. (ORIGINAL) The liquid crystal display according to claim 25, wherein the inverter further comprises a switching transformer to switch a power supply on or off according to the pulse width modulation signals input from the pulse width modulator
- 27. (ORIGINAL) The liquid crystal display according to claim 26, wherein the inverter further comprises a lamp to radiate light using the power supplied by the switching transformer.
- 28. (ORIGINAL) The liquid crystal display according to claim 22, wherein the controller generates and outputs inverter off signals to the inverter when the display mode is changed, and continues generating and outputting inverter off signals until the second

synchronization signal is detected.

29. (CURRENTLY AMENDED) A liquid crystal display, having a liquid crystal panel and backlights, comprising:

a signal converter to convert a video signal into a digital video signal in synchronization with a first sampling clock signal;

a scaler to sample the digital video signal in synchronization with a second sampling clock signal, and to extract a first synchronization signal therefrom;

a panel driver to display the digital video signals on the liquid crystal panel;

a controller to detect the synchronization signal from the digital video signal to determine a display mode, to output the first and second sampling clock signals to the signal converter and the scaler, respectively, according to the determined display mode, and to generate inverter on/off signals whenever the display mode synchronization signal is transiently changed; and

an inverter, which is synchronized with the liquid crystal panel to avoid oscillatory interference therebetween, to drive the backlights in synchronization with a second synchronization signal and the inverter on/off signals.